

FAA Rotorcraft Damage Tolerance (RCDT) and				
Health and Usage Monitoring Systems (HUMS) R&D Review Meeting				
NASA Ames Research Center, Mountain View, CA				
Building 219, 2 <sup>nd</sup> Floor, Conference Room 203				
June 6 – 8, 2006				
DRAFT AGENDA				
Color Legends:		Confirmed Speakers	Not yet Confirmed	Hours-Min
	Day 1: Tuesday June 6 - Rotorcraft Damage Tolerance (RCDT)			
8:45 AM	Opening Remarks	TBD	NRTC	0:10
8:55 AM	Meeting Objectives/Perspectives/Expectations	Le/Cuevas	FAA	0:15
9:10 AM	Development and Validation of Crack Growth Models And Life Enhancement Methods	Atluri	UCI	0:45
9:55 AM	Development and Validation of Crack Growth Databases for Use in Damage Tolerance Approach for Aircraft Propellers and Rotorcraft	Newman, Jr.	MSU	0:45
10:40 AM	Break			
10:55 AM	Rotorcraft Materials Database Development	Newman	ARL	0:45
11:40 AM	Development and Validation of Improved Fatigue Crack Growth Test Methods and Analytic Models Applicable to Damage Tolerance Analyses of Aircraft Propellers	Forman	NASA JSC	0:45
12:25 PM	Lunch			
1:25 PM	Tests and Interpretation of Small Fatigue Crack Growth in Metallic Rotorcraft Structures with Emphasis on the Statistical Characteristics	Kardomateas	GiT	0:45
2:10 PM	Fatigue Crack Growth Testing to Quantify the Effects of Shot Peening for Metallic Rotorcraft Components	Locke	CRI	0:45
2:55 PM	Break			
3:10 PM	Improvements in Crack Detection of Critical RC Components	Gray	ISU	0:45
3:55 PM	Robust Crack Growth Modeling	Irving	Cranfield	0:45
4:40 PM	FAA Assessments of RCDT Progress	Le/Cuevas	FAA	0:25
5:05 PM	Adjourn For Day 1			
Contact Information During Meeting at NASA Ames				
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	<b>Day 2: Wednesday June 7 - RCDT</b>			
8:30 AM	Administrative Remarks	TBD	NRTC/FAA	0:05
8:35 AM	CRI-FAA - Bell Rotorcraft Damage Tolerance Research	Li	Bell	0:45
9:20 AM	CRI-FAA - Sikorsky Rotorcraft Damage Tolerance Research	TBD	Sikorsky	0:45
10:05 AM	CRI-FAA - Boeing Rotorcraft Damage Tolerance Research	TBD	Boeing	0:45
10:50 AM	<b>Break</b>			0:15
11:05 AM	Corrosion and Fatigue Crack Growth	Forman	NASA JSC	0:25
11:30 AM	Life Enhancement	TBD	MSU	0:30
12:00 PM	<b>Lunch</b>			1:00
1:00 PM	NRTC/CRI Bell Advanced Composite Design and Allowables	Li	Bell	0:45
1:45 PM	Evaluating Damage Tolerance Methods Applied to Rotorcraft & Propeller Systems	Forth	NASA JSC	0:45
2:30 PM	<b>Break</b>			0:15
2:45 PM	FAA RCDT Strategic Plan and Roadmap	Le	FAA	1:00
3:45 PM	RCDT Research Results/Outputs and Development of FAA Guidance Materials	Le/Cuevas	FAA	0:30
4:15 PM	Discussions and Q&A			0:45
5:00 PM	<b>Ajourn for Day 2</b>			

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	<b>Day 3: Thursday June 8 - HUMS</b>			
8:30 AM	Opening Remarks	Le	FAA	0:05
8:35 AM	HUMS Degradation	Maley	U.S. Navy	0:45
9:20 AM	Structural Usage Monitoring and Flight Regime Recognition Algorithm and Methodology Enhancement and Validation	Anderson	ERAU	0:45
10:05 AM	Smart Patch System (SPS) for ConditionBased Maintenance of Rotorcraft	Amrita	Acellent	0:45
10:50 AM	<b>Break</b>			0:15
11:05 AM	Development, Validation, and Demonstration of HUMS Technologies to Detect Rotorcraft Mechanical Faults	Meneghini	Smiths	0:45
11:50 AM	<b>Lunch</b>			1:00
12:50 PM	HUMS Ground-Based Station Automated Testing	Meneghini	Smiths	0:45
1:35 PM	Commercial-of-the-Shelf HUMS Assessment and Guidance Development	Robinson	Goodrich	0:45
2:20 PM	<b>Break</b>			0:15
2:35 PM	U.S. Army HUMS Research Using RASCAL Aircraft & Future R&D	Fletcher	U.S. Army	0:45
3:20 PM	HUMS Advisory Circular Demonstration and Compliance	TBD	TBD	0:45
4:05 PM	FAA Assessments of HUMS Progress	Le/Cuevas	FAA	0:30
4:35 PM	HUMS Research Results/Outputs and Substantiation of HUMS AC	Le/Cuevas	FAA	0:25
5:00 PM	<b>Ajourn for Day 3</b>			

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	<b>Day 4: Friday June 9 - FAA - U.S. Army Collaborative HUMS Meeting</b>			
	<b>By Invitation Only</b>			
9:00 AM	Opening Remarks and Introduction	TBD	U.S. Army	0:05
9:05 AM	FAA HUMS & RCDT Program Overview	Le	FAA	1:00
10:05 AM	FAA HUMS Flight Test Requirements	Le	FAA	0:15
10:20 AM	<b>Break</b>			0:15
10:35 AM	AFDD/Ames Flight Projects Office Overview	Major Robinson	U.S. Army	0:30
11:05 AM	RASCAL JUP-60A System Overview Capabilities	Fletcher	U.S. Army	1:00
12:05 PM	<b>Lunch</b>			1:00
1:05 PM	EH-60L & OH-58D Research Aircraft capabilities	Major Robinson	U.S. Army	0:30
1:35 PM	FAA HUMS Flight Test Discussions	All	All	1:00
2:35 PM	<b>Tour of AFDD Hangar and Aircraft</b>			1:00
3:35 PM	AFDD Rotorcraft program Overview	TBD	U.S. Army	1:00
4:35 PM	NASA Rotorcraft Program Overview	TBD	NASA	1:00
5:35 PM	<b>Ajourn</b>			